What is claimed is:

- 1 1. A cathode ray tube including an internal magnetic shield, a
- 2 mask, and a frame, characterized by
- a beam trajectory deflecting means for deflecting, in
- 4 a vicinity of an entrance of the internal magnetic shield, a
- 5 trajectory of an electron beam in an opposite direction to a
- 6 direction in which the electron beam is to deviate in a vicinity
- 7 of the mask due to a magnetic field generated inside the cathode
- 8 ray tube.
- 1 2. A cathode ray tube including an internal magnetic shield, a
- 2 mask, and a frame, characterized in that
- a magnetic flux, which acts on an electron beam that
- 4 passes through either an upper or lower area each occupying 20% of
- 5 an electron beam passing area along a vertical scanning direction,
- 6 proceeds in a direction from a tube axis toward the upper or lower
- 7 area while traveling between an entrance of the internal magnetic
- 8 shield and a vicinity of the center between the entrance and the
- 9 mask, and proceeds in an opposite direction of from the upper or
- 10 lower area toward the tube axis, while traveling between the
- 11 vicinity of the center and the mask, wherein the tube axis is an
- 12 axis of the electron beam passing area.
- 1 3. A cathode ray tube including an internal magnetic shield, a
- 2 mask, and a frame, characterized in that

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in a magnetic flux which acts on an electron beam that

passes through either an upper or lower area each occupying 20% of

an electron beam passing area along a vertical scanning direction,

a magnetic flux density generated at an entrance of the internal

magnetic shield in a direction from a tube axis toward the upper

or lower area is higher than a density of each magnetic flux

generated at both ends of the electron beam passing area in a

horizontal scanning direction passing the tube axis, wherein the

tube axis is an axis of the electron beam passing area.

1 4. A cathode ray tube including an internal magnetic shield, a 2 mask, and a frame, characterized in that

in a magnetic flux which acts on an electron beam that passes through either an upper or lower area each occupying 20% of an electron beam passing area along a vertical scanning direction, a curvature of a magnetic flux being absorbed by both ends of the internal magnetic shield in a vicinity of an entrance thereof in a vertical scanning direction is higher than a curvature of a magnetic flux being absorbed by both ends of the internal magnetic shield in the vicinity of the entrance in a horizontal scanning direction, wherein the tube axis is an axis of the electron beam passing area.

- 1 5. A cathode ray tube including an internal magnetic shield, a
- 2 mask, and a frame, characterized in that

3 in a magnetic flux which acts on an electron beam that passes through either an upper or lower area each occupying 20% of 5 an electron beam passing area along a vertical scanning direction, a magnetic flux density generated at an entrance of the internal 6 magnetic shield in a direction from a tube axis toward the upper 7 8 or lower area is higher than a density of each magnetic flux 9 generated at both ends of the electron beam passing area in a 10 horizontal scanning direction passing the tube axis, and a density 11 of each magnetic flux generated at both ends of the electron beam 12 passing area at the entrance in a vertical scanning direction is 13 higher at the center than at both ends in a horizontal direction, 14 wherein the tube axis is an axis of the electron beam passing 15 area.

1 6. A cathode ray tube including an internal magnetic shield, a 2 mask, and a frame, characterized in that

3 in a magnetic flux which acts on an electron beam that 4 passes through either an upper or lower area each occupying 20% of 5 an electron beam passing area along a vertical scanning direction, 6 a curvature of a magnetic flux being absorbed by both ends of the 7 internal magnetic shield in a vicinity of an entrance thereof in a vertical scanning direction is higher than a curvature of a 9 magnetic flux being absorbed by both ends of the internal magnetic 10 shield in the vicinity of the entrance in a horizontal scanning direction, and a curvature of a magnetic flux being absorbed by 11

- 12 both ends of the internal magnetic shield in a vicinity of the
- 13 entrance in a vertical scanning direction is higher at the center
- 14 than at both ends in a horizontal direction, wherein the tube axis
- 15 is an axis of the electron beam passing area.
- 1 7. A cathode ray tube including an internal magnetic shield, a
- 2 mask, and a frame, characterized in that
- 3 two sides of the internal magnetic shield facing each
- 4 other in a vertical scanning direction are higher than the other
- 5 two sides facing each other in a horizontal scanning direction at
- 6 an entrance of the internal magnetic shield from which an electron
- 7 beam enters the internal magnetic shield.
- 1 8. The cathode ray tube of Claim 7, wherein
- 2 two upper corners of each of the two sides facing in the
- 3 vertical scanning direction are cut.
- 1 9. The cathode ray tube of Claim 8, wherein
- a horizontal length of each cut is less than half of a
- 3 horizontal length of the two sides facing in the vertical scanning
- 4 direction.
- 10. A cathode ray tube including
- 2 an internal magnetic shield which is a pyramid including
- 3 two long sides opposite to each other and two short sides opposite

- 4 to each other, and has an opening at the top thereof,
- 5 a mask, and
- a frame, characterized in that
- 7 each long side has an extension at a horizontal center
- 8 of an end thereof located at an entrance from which an electron
- 9 beam enters the internal magnetic shield, and the extension is
- 10 higher than the two short sides at the entrance.
 - 1 11. The cathode ray tube of Claim 10, wherein
- the extensions are a plurality of projections.
 - 1 12. The cathode ray tube of Claim 11, wherein
 - the plurality of projections are rectangular or
 - 3 semicircular.

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- 1 13. The cathode ray tube of either of Claims 11 and 12, wherein
 - each of the two short sides has a cut a horizontal
 - 3 length of which gradually decreases in a direction from the
 - 4 entrance toward the mask.
 - 1 14. The cathode ray tube of Claim 13, wherein
 - 2 each cut of the two short sides includes at least two
 - 3 cutting angles.
 - 1 15. The cathode ray tube of either of Claims 11 and 12, wherein

- 2 a plurality of tensed wires are spanned between a pair
- 3 of opposite sides of the frame.